NEW APPLICATION



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AZ CORP COMMISSIO

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ORIGINAL

BEFORE THE ARIZONA CORPORATION COMMISSION

SUSAN BITTER SMITH, Chairman

Arizona Corporation Commission DOCKETED

JUL 0 1 2015

DOCKETED BY

DOCKET NO.

E-01345A-15-0241

IN THE MATTER OF THE APPLICATION **PUBLIC SERVICE** COMPANY FOR APPROVAL OF ITS 2016 **ENERGY STANDARD** FOR RESET OF RENEWABLE ENERGY ADJUSTOR.

APPLICATION FOR APPROVAL OF 2016 RES IMPLEMENTATION **PLAN**

The attached 2016 – 2020 Renewable Energy Standard Implementation Plan (2016 RES Plan or Plan) continues APS's commitment to the renewable energy targets established by the Commission's RES rules. APS submits its 2016 RES Plan (attached as Exhibit A) pursuant to A.A.C. R14-2-1813 and in accordance with Staff's standardized reporting format developed pursuant to Decision No. 72737 (Jan. 18, 2012). Also attached is a one-page summary of the Plan (Exhibit B) and a PowerPoint presentation outlining highlights of the Plan (Exhibit C) as required by Decision No. 72022 (Dec. 12, 2010).

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APS's 2016 RES Plan requests funding for existing projects and commitments, including legacy performance based incentives, renewable purchase power costs and ongoing program administrative costs, including those associated with the unprecedented high volume of rooftop solar interconnection applications. No new programs are proposed in the Plan. The Plan seeks budget approval in the total amount of approximately \$147.9 million for 2016, including approximately \$118.2 million that will be collected through the RES adjuster in 2016. The Plan also includes estimated RES budgets through 2020 as required.

The Plan includes the following:

- Summary information regarding the amount of renewable generation on APS's system and its compliance with the RES and 2009 Settlement benchmarks;
- A request to carryover any remaining 2015 funding for the Solar Water Heating Program into 2016;
- A request to continue the Green Choice Rates as previously approved; and
- Estimated budgets for 2016 through 2020.

APS also proposes minor clarifying changes to the Company's Rate Rider Schedule LFCR-DG. This Application briefly touches upon each in turn.

I. PLAN HIGHLIGHTS

A. APS Continues to Exceed Compliance with the RES

The Renewable Energy Standard (RES) requires APS to obtain 6 percent of its retail sales with renewable energy resources by the end of 2016. APS anticipates, given the amount of renewable energy already in its diverse resource portfolio and the current volume of interconnection applications for distributed generation, that approximately 12 percent of the Company's retail sales will be met by renewable resources by the end of 2015. In addition, APS is on track to comply with the renewable energy obligations contained in its 2009 Settlement and is ahead of compliance with both the residential and non-residential distributed generation (DG) targets contained in the RES. As

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outlined in its Plan, by the end of 2016, APS projects that it will be in compliance with the non-residential DG targets through 2021 and the residential DG targets through 2016, excluding DG systems that did not receive an incentive. If non-incented DG systems are considered as contemplated in the Commission's revised RES rules (effective April 20, 2015), APS could be in compliance with the non-residential targets through 2021 and the residential targets through 2022.

B. 2015 Solar Water Heating Program Funds to be Carried Over

In Decision No. 74237 (Jan. 7, 2014) approving APS's 2014 RES Plan, the Commission approved a \$0.30 per watt incentive for solar water heating projects. In 2015, the Commission continued this incentive program at \$0.30 per watt with a total budget of \$500,000. The Commission noted in its order, however, that "all stakeholders are put on notice that this program appears to be under-subscribed and is unlikely to be funded in future REST plans." *See* Decision No. 74949 at 8:10-12 (Feb. 6, 2015). The Commission also directed APS to consider solar water heating as a potential energy efficiency program.

In addition to prior customer awareness initiatives, marketing efforts for this program are planned for later this year. APS proposes to continue marketing and implementing the program until the existing program funds from 2015 are depleted and intends to carryover any remaining 2015 budget funds into 2016.

As directed, APS has evaluated solar water heating as a potential energy efficiency program. The report of that evaluation can be found in APS's 2016 Demand Side Management Report filed on June 1, 2015 in Docket No. E-01345A-15-0182. Based upon current costs and savings estimates, solar water heating is unable to pass the societal cost test and thus was not included as a proposed energy efficiency program in APS's 2016 DSM Plan.

C. Report and Analysis Comparing Costs of Renewable Options

In Decision No. 74949 (February 9, 2015), the Commission ordered APS to study large scale utility-owned distributed generation facilities, sized at one MW or larger and

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located within a utility's grid, which could provide most of the benefits of rooftop DG. The study will also include a comparison of company-owned and customer-owned DG options.

APS is currently working on the details of an analysis that will compare the levelized cost of energy (LCOE) of large scale DG facilities to typical rooftop DG facilities. In addition, the analysis will consider the differences in the LCOE based on whether the project is utility owned or third party owned. The impact to non-solar customers from third-party rooftop systems will also be included. APS will supplement its Plan when this analysis is complete.

D. Continuation of Green Choice Program

The Plan seeks a one-year extension of the Company's existing Green Choice Program and associated Green Power Rate Schedules GPS-1, GPS-2 and GPS-3. APS will be exploring options for revising its Green Choice Programs and will be looking at alternatives to the current Green-e certification program that it is using to certify the renewable energy credits (RECs) associated with this program.

II. APS'S PLAN PROPOSES A BUDGET AND RES ADJUSTOR TO SUPPORT EXISTING APPROVED PROJECTS AND COMMITMENTS

A. Proposed 2016 Budget

APS requires a total 2016 RES budget of approximately \$147.9 million. This is approximately \$6 million less than the budget for 2015. As part of standard program management practice and to moderate the 2016 budget impact on customers, APS intends to apply budget offsets that will reduce the amount APS must collect through the RES adjustor for 2016 to approximately \$118.2 million. The 2016 budget offsets include approximately \$6 million collected from base rates, production tax credits of approximately \$8 million, Green Choice program revenue of approximately \$1.7 million, and \$14 million in reallocated program funds. See RES Plan at Exhibit 1A.

B. Reallocation of Collected, But Unallocated, Program Funds

A total of approximately \$31.5 million is available to be reallocated to mitigate the effects of the 2016 and 2017 budgets and to correspondingly reduce the amount that need to be collected through the RES adjustor. These funds are the result of variances in power purchase costs, programs being completed under budget, cancellation of prior authorized contracts, and rollover funds. In its 2015 RES Plan, APS applied \$14 million in unallocated existing program funds as a direct offset to the 2015 RES budget to reduce the RES adjustor. As in prior years, APS proposes to apply existing collected, but unallocated funds, to reduce the amounts that must be collected through the RES adjustor in 2016 and 2017. Specifically, APS proposes to apply \$14 million to support the 2016 budget. The remaining balance will be applied in subsequent years to reduce adjustor collections and minimize budget impacts on customers. This will allow the RES adjustor to remain flat in 2016 and, based upon current projections, it is anticipated that the adjustor will remain flat or decline in 2017.

C. Production Tax Credits (PTCs) from AZ Sun

As discussed in the Plan, APS receives PTCs from the state of Arizona due to its ownership of the AZ Sun projects. These PTCs vary from year to year depending on actual energy production. APS projects that it will receive approximately \$8 million in PTCs for AZ Sun in 2016. APS intends to apply these funds to its 2016 budget to reduce the amount that must be collected through the RES adjustor.

D. Adjustment Schedule REAC-1

As noted above, the Company's proposed 2016 Plan budget, including funding offsets, will result in a recovery of approximately \$118.2 million through Adjustment Schedule REAC-1. Under this Plan, residential customers subject to the REAC-1 cap will pay \$4.39 per month while those residential DG customers subject to the average

¹ This amount will include interest on the unallocated funds in accordance with Decision No. 74237 (January 7, 2014).

charge as ordered in Decision No. 73660 (Feb. 6, 2013) will pay \$4.00 per month. *See* Exhibit 1B to the Plan.

Adjustment Schedule REAC-1 is attached as Exhibit D and, for the Commission's convenience, a redlined copy is attached as Exhibit E.

III. EXEMPTION OF ECT-1R FROM GRID ACCESS CHARGE AND CLARIFICATION REGARDING UNREGISTERED GENERATOR CHARGE

APS additionally seeks minor revisions to Rate Rider Schedule LFCR-DG, Residential Service Interim Adjustment for New Distributed Generators (Grid Access Rate Rider), to (i) exempt residential customers who are paying demand charges under Rate Schedule ECT-1R from the Grid Access Rate Rider, and (ii) clarify the application of the charge for unregistered generators. In Decision No. 74202 (Dec. 3, 2013), the Commission approved a \$0.70 per kW per month charge (Grid Access Charge) for customers installing and interconnecting distributed generation after January 1, 2014 to address a cost shift from DG customers to non-DG customers. Customers who take service under retail Rate Schedule ECT-2 or successor rate schedules were specifically exempted from having to pay the Grid Access Charge because ECT-2 addresses, at least in part, the cost-shift through a demand-based rate design. Retail Rate Schedule ECT-1R has a similar design and demand component as ECT-2. Thus, for the same reasons that the Commission exempted ECT-2 customers from the Grid Access Charge, APS requests that customers on ECT-1R also be exempt from the Grid Access Charge.

The Grid Access Rate Rider also provides a mechanism to charge customers \$3.00 per kW per month if they are found to have installed and interconnected a distributed generation system to APS's system without registering their system through APS's interconnection process. Specifically, the \$3.00 per kW per month charge, referred to as the "Generator Not Registered with APS" charge, applies to those customers found to have improperly interconnected with the grid either by failing to submit an application to interconnect or by failing to comply with the interconnection

guidelines. This charge is to prevent unregistered systems, which can cause safety and other hazards to both the customer and to APS employees, as well as to the grid itself. APS proposes to clarify that this charge applies beginning in the month APS detects the unregistered system and ends when the unregistered distributed generation facility is shut off while the Company's interconnection procedures are implemented. In addition, APS seeks to clarify that unregistered customers will be subject to the charge for a minimum of one month. The proposed Grid Access Rate Rider is attached as Exhibit F and, for the Commission's convenience, a redlined copy is attached as Exhibit G.

IV. CONCLUSION

In short, APS's 2016 RES Plan provides continued support and funding for all previously approved RES programs and commitments that will enable APS to meet its obligations under the RES while moderating incremental rate impact. Accordingly, APS requests that the Commission approve APS's 2016 RES Plan and budget as proposed along with the minor revisions to the Grid Access Rate Rider described herein.

RESPECTFULLY SUBMITTED this 1st day of 111 2015.

Melissa M. Krueger

Attorney for Arizona Public Service Company

1	ORIGINAL and thirteen (13) copies of the foregoing filed this 1st day of
2	July 2015, with:
3	Docket Control
4	ARIZONA CORPORATION COMMISSION 1200 West Washington Street
5	Phoenix, Arizona 85007
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Exhibit A

APS Renewable Energy Standard Implementation Plan 2016-2020



Renewable Energy Standard Implementation Plan 2016-2020

July 1, 2015

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i. Executive Summary

Arizona Public Service (APS or Company) is required by the Renewable Energy Standard (RES) to achieve 6.0 percent of retail sales with renewable resources by year-end 2016, increasing annually to 10.0 percent in 2020. In the following 2016-2020 RES Implementation Plan (Plan), APS requests funding approval for existing program commitments and deployment of previously authorized programs. The Company expects to achieve compliance with its 2016 RES requirements provided all of the resources discussed herein are authorized and continued as previously approved in prior Arizona Corporation Commission (Commission) decisions.

Renewable Generation. In Decision No. 74237 (January 7, 2014), the Commission authorized APS to move ahead with 20 MW of utility-scale, renewable generation (RG) projects under the AZ Sun Program. These projects include a 10 megawatt (MW) solar facility at Luke Air Force Base and the 10 MW Desert Star Solar Plant at the City of Phoenix's Buckeye landfill. Both projects will be in commercial operation during the third quarter of 2015.

Distributed Generation. Consistent with Commission requirements on incentive funding step downs and APS performance with the distributed generation (DG) requirements, APS ceased offering direct cash incentives for residential and non-residential solar PV grid-tied resources as of the end of 2013. As of June 28, 2015, 22,394 residential customers and 999 non-residential customers have received incentives to interconnect PV systems, with associated capacity of 153.6 MW-AC and 231.4 MW-AC, respectively. Based upon these currently installed resources, as well as commitments from previously approved program budgets, APS projects it will be in compliance with non-residential energy targets through 2020 and residential DG energy targets through 2016. APS is not requesting monies for new solar PV grid-tied resource incentives in the Plan. The above DG forecast does not include renewable energy credits (RECs) associated with non-incented installations. Through June 28, 2015, 11,338 residential PV grid-tied systems for 84 MW-AC and 220 non-residential PV systems for 13.9 MW-AC have been installed and interconnected without receiving direct cash incentives. Considering all installations, both incented and non-incented, along with projections based on the current rate of solar installations, APS expects to meet residential DG compliance through 2022 and non-residential DG compliance through 2021 by the end of 2016.

Budget. The requested budget for APS's 2016 Plan consists of funding for previously authorized programs including PBI legacy payments, purchased power and revenue requirement costs, educational outreach, and administration of prior initiatives currently being implemented.

APS expects the total base budget for PBI and other DG legacy costs, PPA projects, and APS-owned projects in 2015 to be \$147.9 and the five-year total for the 2016-2020 Plan to be \$531.8 million, not including any funding offsets.

I. Introduction

In the 2016-2020 RES Implementation Plan, APS provides an update on authorized renewable energy programs, including legacy customer incentive programs, generation projects, and the Green Choice Program, as well as any related budget requirements.

A. 2016-2020 RES Requirement

The Arizona RES was established in August 2007, and requires APS to file a Plan each year for review and approval by the Commission.¹ The Plan describes the Company's strategy to meet the requirements of the RES for the next five calendar years, identifying the eligible technologies, the expected schedule for the resource incorporation on a year-by-year basis, and both the megawatts (MW) and megawatt hours (MWh) expected to be added to the APS portfolio by the incorporation of those resources.

APS has prepared this Plan for the five year period 2016-2020 in compliance with the RES Rules. The RES requires that affected utilities satisfy an annual renewable energy requirement by providing a percentage of their electric retail sales from renewable energy resources. The required percentage for the current implementation period begins at 6 percent in 2016 and increases to 10 percent in 2020. The RES requires that the minimum percentage increases to 15 percent of the utility's total retail sales by the year 2025.

Per Decision No. 74882 (December 31, 2014), compliance with the Distributed Generation (DG) rules may be met absent direct cash incentives. The Commission requires APS to include information in its Plan on the Company's compliance standing both with and without being able to record renewable energy installed independently by a customer without receiving a direct cash incentive (described herein as non-incented installations). Exhibits 2B and 2C identify distributed generation production under both scenarios requested by the Commission. Other energy exhibits in this Plan show existing and projected non-incented installations.

B. 2009 rate case settlement requirements

The Company's 2009 Rate Case Settlement² (2009 Settlement) adopted provisions that exceed the requirements of the Arizona RES. The 2009 Settlement required, among other provisions, "that Arizona Public Service Company shall acquire new renewable energy resources with annual generation or savings of at least 1.7 million Megawatt hours to be in service by 2015..."³ It further states that "These new resources shall be in addition to existing resources or commitments as of the end of 2008, as identified in APS's 2008 RES

¹ A.A.C. R14-2-1801 et. seq.

² Decision No. 71448 (December 30, 2009).

Compliance Report..."⁴ As a result of current economic and sales forecasts, APS expects to maintain its renewable energy obligations by the end of 2015 and meet the 1.7 million MWh requirement; further, APS expects that approximately 12 percent of the Company's retail sales will be met by renewable resources by year-end 2015.

II. Renewable Generation

Renewable Generation resources within the APS portfolio are larger-scale renewable energy resources that serve the energy demand of all APS customers. These resources are part of the Company's energy portfolio as provided to the Commission in the Company's 2014 Integrated Resource Plan⁵ and are applied to APS's overall RES requirements. APS is required to include estimated pricing information related to RG projects. Similar to prior Plans, APS has included a redacted version of the information in Exhibits 3B and 3D and is providing un-redacted pricing information directly to the Commission.

This plan reviews a number of APS's renewable energy programs that have been authorized through prior Commission orders and are continued through approval of APS's annual Plan filings.

In Decision No. 74237,⁶ the Commission authorized APS to move ahead with 20 MW of utility-scale, renewable generation (RG) projects under the AZ Sun Program. These projects include a 10 megawatt (MW) solar facility at Luke Air Force Base and the 10 MW Desert Star Solar Plant at the City of Phoenix's Buckeye landfill. Both projects will be in commercial operation during the third quarter of 2015.

III. Distributed Generation

A. APS interconnection program

Consistent with Commission requirements on incentive funding step downs and APS performance with the DG requirements, APS ceased offering direct cash incentives for residential and non-residential solar PV grid-tied resources as of the end of 2013. The Company has nonetheless been experiencing historic monthly application rates for non-incented residential PV grid-tied generating facilities during 2015; indeed, the 2015 residential application volume through the end of May is nearly double that of the same period in 2014, and we do not expect that this pace will slacken. At this time, the Company is not seeking either RES budget monies or authorization for new distributed generation incentive programs in 2016.

⁴ Id.

⁵ Docket No. E-0000V-13-0070, filed in compliance with Ariz. Admin. Code R14-2-703.

⁶ Decision No. 74237 (January 7, 2014)

With the high volume of interconnection requests comes increased activity in the areas of application review and meter installation, and our RES budget request of \$6.8 million for distributed generation program administration and implementation reflects this market reality.

B. Managing long-term PBI contracts and payments

From 2009 to 2013, APS was authorized to implement annual production-based incentive (PBI) programs for non-residential customers who deploy PV grid-tied resources at commercial sites. PBIs are paid on a cents/kWh basis for actual solar generation. These legacy PBI contracts provide customers with long-term, ongoing RES budget commitments that are gradually paid out over a period of up to 20 years.

APS has entered into long-term PBI contracts totaling \$652.6 million over the life of the RES. By the end of 2015, the Company will have paid approximately \$134 million cumulatively against the total. APS estimates that at the end of 2016, \$480.9 million in lifetime PBI payments will remain to be collected and paid for through future RES budgets, with \$37.7 million projected to be paid during 2016. Exhibit 3C also includes the amortization of PBI commitments through ongoing incentive payments as well as the reduction in remaining PBI authorizations no longer needed to complete prior programs.

APS renewable energy program staff manage all of the associated PBI credit purchase contracts, assists customers with system modification queries, and support various departments within the Company to manage quarterly PBI payment processing, facilitate CPA assignments and contact or payee information changes, as well as resolve customer billing queries. Ongoing PBI contract management is included in our RES budget request of \$6.8 million for distributed generation program administration and implementation.

C. Solar water heating

Consistent with Decision No. 74949 approved on February 9, 2015, APS is not requesting new funding for solar water heating (SWH) resources in the 2016 Plan. The Company will, however, continue to market the solar water heating incentive program and disburse incentives until the budget is exhausted. The beginning budget for this program was \$500,000 and approximately \$418,000 remained as of June 28, 2015.

Seeking to increase awareness of both the SWH incentive program, as well as the value of this solar resource, the Company passed out collateral at high-profile sporting events such as the Diamondbacks Green Game and distributed a newsletter to 1.2 million customers during the June 2014 billing cycle. Not only will we continue to distribute program materials throughout the remainder of 2015 at community and sporting events, but APS will also issue an October 2015 bill insert with a spotlight on solar water heating incentives. Further, APS will work with stakeholders to develop new ways to educate customers about solar water heating. The Educational Outreach budget of \$100,000 supports this and other RES-attributable marketing efforts (see below). Application processing and inspections for solar

water heating systems are supported by the \$6.8 million distributed generation program administration and implementation budget.

IV. Program Administration

A. Distributed Energy Administration Plan (DEAP)

The DEAP is a master program administration guideline that APS posts on its public website at aps.com/renewables. APS has made no new changes to the DEAP that was approved in Decision No. 74883 on December 31, 2014.

B. Educational outreach

Under the Educational Outreach budget, APS publicly posts and maintains information about the current status of DG adoption and programs on ArizonaGoesSolar.org. In addition, this budget includes expenses associated with developing and updating RES-attributable educational and program materials that are made available to customers and other public stakeholders through aps.com website updates, bill inserts, and printed matter. APS requests \$100,000 in 2016 to continue funding RES-attributable education and outreach.

C. Green Choice program

APS requests that the Commission approve a one-year extension of the Company's Green Choice program and the associated Green Power Rate Schedules GPS-1, GPS-2, and GPS-3. The Green Choice Program provides customers with the ability to participate in a renewable energy resource program by purchasing electricity generated from renewable resources for their homes and businesses. APS is exploring the possibility of replacing or revising its Green Choice Program and will be looking at alternatives to the current Green-e certification program the Company uses to verify the associated RECs.

V. Budget

The budget for APS's 2016 Plan consists of funding for previously authorized programs including PBI legacy payments, purchased power and revenue requirement costs, and prior initiatives currently being implemented.

On May 24, 2012, the Commission resolved APS's most recent rate case in Decision No. 73183. That Decision impacted the RES program as the Commission reaffirmed that APS can recover, through the RES adjustor, the revenue requirements associated with those APS renewable energy-related capital investments made in compliance with Decision No. 71448.⁷ APS may do so until it is specifically authorized to recover those costs in base rates

Decision No. 73183, Settlement Agreement, paragraph 8.2.

or another adjustor.⁸ The Commission has approved several APS-owned capital investments for purposes of compliance with Decision No. 71448, including the AZ Sun Program and the Schools and Government Program.

The total base RES budget in 2016 is \$147.9 million and the five year total for the 2016-2020 Plan is projected to be \$531.8 million, not including any funding offsets.

APS intends to apply several credits and revenue streams to lower total RES adjustor collections needed in 2016 and 2017. Offsets to the 2016 budget (see Exhibit 3A) include \$6.0 million from the System Benefit Charge included in base rates and \$23.7 million in budget reductions from Production Tax Credit (PTC) funds, rate program revenues, and general reallocation offsets due to variances in power purchase costs, programs completed under budget, and cancelled projects. After applying these funding offsets, the total requested RES adjustor collection for 2016 is \$118.2 million.⁹

A. Production tax credits

Through APS's ownership of its AZ Sun projects, the Company will receive tax credits from the Arizona state production tax credit (PTC) program from 2016 through 2020. 10 Actual PTC amounts will vary each year depending on actual energy production from each eligible project compared to its forecasted annual production, as well as an annually declining credit per MWh produced. PTC credits have already been approved for the Company's Paloma, Cotton Center, Hyder, Chino Valley, and Foothills facilities, which were placed in service from 2011 to 2014. As shown in Exhibit 3A, expected PTC available in 2016 is \$8 million, compared with \$8.3 million in 2015. The AZ Sun projects listed above are forecasted to contribute a total of \$32.4 million in PTC revenue between 2016 and 2020, and approximately \$64 million over the life of the PTC.

Consistent with the 2015 Plan, APS is using its full annual AZ Sun PTC to offset the cost of the 2016 RES budget.

B. Reallocation of program funds

In prior RES Plans, APS has applied a portion of the Company's unallocated program funds as a direct offset to a given year's budget to reduce the need for additional RES collections.

Additional collected program funds are available for budget offsets due to variances in power purchase costs; programs completed under budget, rollover funds, and canceled projects. As of May 31, 2015, \$31.5 million is available for future RES budget offsets. As authorized in the 2015 Implementation Plan, APS proposes to apply \$14 million of the available funds towards reducing RES adjustor collections for the 2016 budget—in part to minimize year-over-year budget impacts. Any additional balance in the Company's unallocated program funds will be applied in subsequent program years.

⁸ *Id*.

⁹ See Exhibit 3A.

^{10 2010} Senate Bill 1254 established Arizona's Production Tax Credit.

Exhibit 1A: APS 2016 - 2020 RES Program Summary

APS Estimated Retail Sales						
APS FEET Target - % of Retail Gales		2016	2017	2018	2019	2020
APP Total RES for Retail Sales 6.0% 7.0% 8.0% 2.00% 2.10.568 3.0595 1.00	APS Estimated Retail Sales	28,521,089	28,996,597	29,558,195	30,140,948	30,599,40
Distributed Energy Requirement	APS RES larget - % of Retail Sales	%0.9	7.0%	8.0%	6.0%	10.0
Non-Incented Distributed Energy Requirement	APS Total RES Requirement	1,711,265	2,029,762	2,364,656	2,712,685	3,059,941
Distributed Energy % of RES Requirement 313,80 0608,929 30% 30	RES Generation Target	1.197.886	1.420.833	1 655 250	1 000 000	
Molesale Distributed Energy (10%) 213,380 309, 309, 309, 309, 309, 309, 309, 309,			2000-1-	607/00/1	7,090,000	2,141,93
Non-Incerted Freely (10%) 255,382 243,571 283,759 325,522 356,993 304,469 304,469 305,469 305,522 366,993 304,469 305,522 366,993 304,469 325,522 366,993 304,469 325,522 366,993 304,469 325,522 366,993 304,469 325,522 366,993 304,469 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,522 366,993 325,593 325,593 325,593 325,593 325,593 325,593 325,693 325,693 325,693 326,623 326,623 326,623 326,623 326,633 325,693 326,633 325,693 326,634 326,63	Distributed Energy % of RES Requirement	30%	30%	30%	30%	30%
Mon-lesale Distributed Energy (10%) 255,690 304,464 354,699 406,903 455	Desidential Pital Literal Comment	513,380	608,929	709,397	813,806	917,983
Varieticate Distributed Energy (10%) 205,352 243,571 283,759 325,522 36 36 36 36 36 36 36	Residential Distributed Energy (50%)	256,690	304,464	354,699	406,903	458,99
Wholesale Distributed Energy (10%) 51,338 60,883 70,940 81,381 9	Non-Kesidential Distributed Energy (40%)	205,352	243,571	283,759	325,522	367,19
RES Generation Target	Wholesale Distributed Energy (10%) ¹	51,338	60,893	70,940	81,381	91,79
Columb Passe RES Generation Target 1,197,886 1,420,833 1,655,259 1,898,880 2,144 1,197,886 1,420,833 1,655,259 1,898,880 2,144 1,1420,837 1,655,259 1,898,880 2,144 1,1420,837 1,655,259 1,898,880 2,144 1,1420,837 1,412						
Section Target 1,197,886 1,197,886 1,197,886 1,197,886 1,195,195,174 1,120,387 1,195,186 1,195,195 1,198,1880 1,198,1890 1,198,180 1						
Column C	RES Generation Target	2016 1,197,886	2017 1,420,833	2018 1,655,259	2019 1,898,880	2020 2,141,95
Columentary Charles	Existing/Democratics and Constitution of the C					
Color Colo	Energy Applied To/(Withdrawn From) APS Bank for RES	1,363,274	2,541,191	2,527,614	2,513,660	2,506,57
Stimuted Energy Requirement	ed Energy (MWh)					
Stimated Existing Distributed Energy 207,469 816,475 825,975 835,872 84	RES Distributed Energy Requirement	2016 513,380	2017 608,929	2018 709,397	2019 813.806	2020 917.98
Non-Incented DE Installations 327,008 398,747 464,711 530,675 598,747 598,747 59	Estimated Existing Distributed Energy ²	807.469	816.475	825 975	835 877	045 746
Non-Incented DE Installations Aps Bank for RES 294,089 207,546 116,578 22,067 (77) Non-Incented DE Installations 327,008 398,747 464,711 530,675 599 Total Expected RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,350 Interest of RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,350 Interest of RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,350 Interest of RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,350 Interest of RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,350 Interest of RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,350 Interest of RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,350 Interest of RES Production 3,368,629 3,349,533 3,350 Interest of RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,350 Interest of RES Production 3,368,629 3,349,533 3,350 Interest of RES Program Budget 4,050 4,000 4,000 Interest of RES Program Budget 4,000 4,000 4,000 Interest of RES Program Budget 4,000 Interest of RES Program Bud		601/100	01010	0,16,020	979,656	842,748
Total Reserved RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,055	/(Withdrawn From) APS (294,089	207,546	116,578	22,067	(72,234)
Total RES Requirement 1,711,265 2,029,762 2,364,656 2,712,685 2,712,85 2,712,85 2,712,12,12,12,12,12,12,12,12,12,12,12,12,1		327,008	398,747	464,711	530,675	596,63
Total Expected RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,357,666 3,353,689 3,349,533 3,357,666 3,353,689 3,349,533 3,357,666 3,353,689 3,349,533 3,357,666 3,353,689 3,349,533 3,357,669		2016	2017	2018	2019	2020
Total Expected RES Production 3,368,629 3,357,666 3,353,589 3,349,533 3,35 (withdrawn From) APS Bank for RES (line 34 line 32)	lotal RES Requirement	1,711,265	2,029,762	2,364,656	2,712,685	3,059,941
/(Withdrawn From) APS Bank for RES (line 34 - line 32) Non-Incented DE Installations Non-Incented DE Installations 2016 Total Renewable Generation 3 \$ 98.2 \$ 75.8 \$ 42.6 \$ 43.2 \$ 2018 Total Distributed Energy 3		3,368,629	3,357,666	3,353,589	3,349,533	3,352,324
2016 2017 464,711 530,675 59 \$ 98.2 \$ 75.8 \$ 42.6 \$ 43.2 \$ 2019 \$ 147.9 \$ 122.5 \$ 87.0 \$ 87.0 \$ 87.0 \$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) \$ 118.2 \$ 107.4 \$ 72.5 \$ 73.4 \$ 73.4	70	1,657,363	1,327,904	988,933	636,847	292,383
Total Renewable Generation \$ 98.2 \$ 75.8 \$ 42.6 \$ 43.2 \$ 2012 Total Distributed Energy 49.6 46.7 44.4 43.7 Base RES Program Budget \$ 147.9 \$ 122.5 \$ 87.0 \$ 87.0 \$ 87.0 \$ 8 87.0		327,008	398,747	464,711	530,675	596,63
\$ 98.2 \$ 75.8 \$ 42.6 \$ 43.2 \$ 49.6 \$ 46.7 \$ 44.4 \$ 43.7 \$ \$ 44.4 \$ 43.7 \$ \$ 44.4 \$ 43.7 \$ \$ 44.0 \$ \$ 6.0 \$\$ \$ \$ 6.0 \$\$ \$ 6.0 \$\$ \$ 6.0 \$\$ \$ 6.0 \$\$ \$ 6.0 \$\$ \$ 6.0 \$\$ \$ 6.0 \$\$ \$	cs Budget summary (\$ M's)	2016	2017	2018	2010	0000
\$\begin{array}{c ccccccccccccccccccccccccccccccccccc	Total Renewable Generation 3					707
\$ 147.9 \$ 122.5 \$ 87.0 \$ 43.7 \$ 44.4 \$ 43.7 \$ \$ 122.5 \$ 87.0 \$ 87.0 \$ \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ 87.0 \$ \$ \$ 87.0 \$ \$	Total Distributed Frency 3					
\$ 147.9 \$ 122.5 \$ 87.0 \$ 87.0 \$ \$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (8.0) (7.4) (6.8) (5.9) (1.7) (1.7) (1.7) (1.7) \$ 118.2 \$ 107.4 \$ 72.5 \$ 73.4 \$	oral Distributed Liferby	49.6	46.7			43.4
\$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (6.0) \$ (7.4) (6.8) (6.8) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.8.2 \$ 118.2 \$ 107.4 \$ 72.5 \$ 73.4 \$	Base KES Program Budget	\$ 147.9	12	В		
(8.0) (7.4) (6.8) (5.9) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.8) TBD TBD TBD TBD TBD TBD TBD	Broduction Tox Coditor	(6.0)		(6.0)	(0.9) \$	
(14.0) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.8D TBD TBD TBD TBD TBD TBD TBD TBD TBD TB	Frounction 14x Credits Estimated Green Choice Revenue Credit	(8.0)	(7.4)	(6.8)	(5.9)	4.
\$ 118.2 \$ 107.4 \$ 72.5 \$ 73.4 \$ 7	Previous Years Rollover Funds and Other Credits	(14.0)	TBD	(1.7) TBD	(17) TBD	(1.) 185
	RES Adjustor Collection ⁴				73.4	

Notes:¹ Per AAC R14-2-1805.

Does not include non-incentive installations from residential and non-residential energy sources towards compliance. Non-incentive installations defined as installations made by customers without taking a direct cash incentive and without transferring REC ownership to APS.
 Assumes July 2017 rate case adjudication.
 See Exhibit 1B for RES Adjustor Schedule.

Exhibit 1B: RES Adjustor Schedule

	Residential	XS Commercial (<20 kW)	XS/Small Commercial (20-100kW)	Medium Commercial (100-400 kW)	Large Commercial (400-3,000 kW)	Industrial (>3,000 kW)
			\$0.0109	\$0.010963/kWh		
2016 Charge/Cap (Non-DG Customers)	\$4.39	\$16	\$162.88	\$274.08	\$548.15	\$3,562.00
2016 Average (DG Customers)	\$4.00	Cap: \$162.88 Floor: \$9.15	Cap: \$162.88 Floor: \$45.77	\$235.06	\$479.33	\$3,562.00

Company Comp		Ownership ¹	Completion	Total MWac						
Sobert Sobert ACMAN <	Targeted Generation Resources: 2						. 6, %			
Prescript and Party Park Online 16 2 10 285 10 284 10 15 18 10 10 28 2 18 8 2 1	Solari				7010	2017	2018	2019	2020	Total
Prescript to the price of the prescript to the prescript	Ajo	3rd Part	Online							
Marche Marke Mark	Prescot	3rd Part	Online	2 5	10,205	10,204	10,153	10,102	10,080	20,8
Second Comments Second Com	Badger	3rd Part	Online	15	39 675	44,44	24,101	23,860	23,685	120,6
March Marc	ellespile	3rd Part	Online	15	42,341	42,006	39,030	38,773	38,545	195,3
Hydrol H	Januar Hountall	3rd Part	Online	15	34,330	33.961	33,680	41,307	41,500	209,2
Application	Solana CSF	3rd Part	Online	250	937,739	934.819	034 810	33,420	33,245	168,6
March Architect Architec	Sale Sole Soles		Online	4.6	9,953	9,953	0.00	934,019	937,739	4,679,9
A	Taloina Taloina		Online	17	40,734	40.318	40.036	200,00	9,953	49,7
White APS	I landin		Online	16	40,181	39,862	30,663	00,750	39,606	200,4
Mile	Chira Valle		Online	17	45.442	45,213	45 133	101,50	39,383	198,5
March Abs	Cililo Valley		Online	19	47.504	736.77	221,01	43,032	45,080	225,8
Minder APS Contine 11 19,254 19,526 19,526 19,227 199,287	Foothills I/II		Online	35	111 272	110 350	47,030	46,795	46,561	235,1
Second APS Coline APS Mid 2015 106,225 107,324 106,008 44,713 106,224 106,008 106,224 106,	Hyder II		Online	14	45,610	110,000	109,810	109,267	109,064	549,7
Minch Minc	Gila Bend		Online	2	100	557,64	45,029	44,804	44,713	225,4
Wind:	Luke AFB		Mid 2015	; ;	108,223	107,344	106,808	106,274	106,076	534.7
Wind; Wind; Wind; Wind; Wind; Wind; 34,913	Desert Star		Mid 2015	2 5	34,001	34,584	34,412	34,240	34,169	172,2
Wind: 3nd Party PPA Online 90 289,239 289,239 269,239 276,419 473,419 473,419 474,419 474,419				?	ttcicc	32,205	32,088	34,913	34,838	175,6
Second Party Party Deck Colline Second Party Party Deck Second Party Deck Second Party Party Deck Second Party Deck	Wind:									
March Marc	Aragonne Mesa	3rd Party	Online	8	טבר טאר	000				
March 31d Party PPA Online 10 63,617 63,419 63,419 63,419 63,617 63,617 63,419 63,419 63,617 63,419 63,617 63,617 63,419 63,617 63,617 63,617 63,419 63,617	High Lonesome	3rd Party	Online	2 5	200,405	269,239	269,239	269,239	269,239	1,346,1
State Stat	Perrin Ranch	3rd Party	Online	8 8	200,495	299,592	299,592	299,592	300,495	1,499,7
Blogas:	,			}	10,122	770,410	226,416	226,416	227,074	1,133,3
Second S	Calton Coulos									
Sample S	Saltoli Sea/CE Turbo	3rd Party	Online	01	63,617	63,419	63.419	63 410	155.63	
Party PPA	Biomerica de la companya de la compa						C11/20	67470	03,61/	317,4
Sample S	Sounday:	1								
Section Sect	Sexton (Glendale Landfill)	Sid Party	Online	14	52,167	42,326	32,279	21 838	11 707	
Secretion Secr	Northwest Regional Landfill Gas	Sid Party	Online	5.9	17,586	17,538	17.538	17 538	17,707	160,3
gentation Board 2,561,160 2,541,191 2,527,014 2,513,660 2,506,575 12,527,014 dential: dential: Customer-Sited DE Various Various Various Various Various 291,556 228,566 228,566 228,566 228,566 228,566 228,566 228,566 228,5		אום אוני	Online	3.2	22,622	22,560	22,560	22,550	22,280	87,78
Customer-Sited DE Various Various Various 291,556 291,								200/	220,022	112,92
dential: Customer-Sited DE various Various various Various various 291,556 228,566	Total Targeted Generation				A STATE OF THE PERSON NAMED IN COLUMN 1 IN					
3 dential: Customer-Sited DE various Various various Various various Various various Various various various Various vari				803	2,561,160	2,541,191	2,527,614	2,513,660	2.506.575	12.650.20
dential: Customer-Sited DE various Various various 291,556 228,566	argeted Distributed Energy Resources: 3									00/000/00
Customer-Sited DE Various Various Various P64 291,556										
Customer-Sited DE Various Various Various 291,556 291,598 291,	Residential:									
Customer-Sited DE Various Various Various S9,705 291,556 291,756 291,757 291,756 291,757 291,756 291,757 291,756 291,757 291,756 291,757 291,7	INT Installations	City and and and								
Customer-Sited DE Various Various 298,705 366,086 427,692 489,288 550,904 764 764 764 764 764 764 764 764 764 76	Mon Tocoption T-111.	Customer-Site	Varions	Varions	291,556	291,556	291,556	201 556	201 100	
APS Online 0.4 764 764 764 764 764 764 764 764 764 76	ricelitive Installations	Customer-Sited	Varions	Various	298 705	366 396	200,200	000,162	491,356	1,457,78
Customer-Sited DE Various Vari	riagstan Community Power Project		Online	4.0	764	300,000	427,692	489,298	550,904	2,132,68
Customer-Sited DE Various Various Various S28,356 39,938 39,938 3						10/	40/	764	764	3,82
Customer-Sited DE Various Various Various 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 228,566	Subtotal Residential				501 025	200 700				
Customer-Sited DE Various Various S 228,566 22	Non-Desidential				221,063	004,000	720,012	781,618	843,224	3,594,285
Customer-Sited DE Various Various Various 139,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 39,936 38,936 228,566	: Indiana Sandina Sand	(
Customer-Sited DE Various Various 228,566 228,	PRI Installations	בווא	Varions	Varions	39,936	39,936	39.936	350 05	20.00	
Customer-Steed DE Various Various 28,303 32,661 37,019 41,377 45,735 Customer-Steed DE Various 35 73,415 73	Mon-Tocation Total	Cusi	Varions	Varions	228,566	228,566	228.566	22,22	מנה, פנר	89,681
Customer-Sited DE Online 35 79/451 79,173 78,896 78,8520 78,735 79,735 79,735 79,735 79,735 79,735 79,735 79,735 79,735 79,735 79,745 7	SIDDING THE THE THE THE THE THE THE	Customer-Sited DE	Varions	Various	28.303	32 661	27.040	200,027	220,300	1,142,83
Customer-Sited DE Various 45 73,415 7	Cohool & Commence of the King	Customer-Sited DE	Online	32	79 451	70,173	20,70	41,3//	45,735	185,09
APS Online 13 40,677 7,5415 73,415 73	Services & Government (StarParty Owned)	Customer-Sited DE	Varions	45	73 415	10,110	0690	18,620	78,344	394,48
APS Online 0.9 1,766 1,7	Schools & Government (Utility-Owned)	APS	Online	13	40 677	12,413	73,415	73,415	73,415	367,07
3rd Party PPA Online NA 51,338 60,893 70,940 81,381 91,798 543,437 556,816 570,674 584,929 599,163 2	riagstart Community Power Project	APS	Online	0	1 766	901,01	40,136	39,868	39,603	200,68
543,452 556,816 570,674 584,929 599,163 Z	Wholesale DE	3rd Party PPA	Online		1,700	1,766	1,766	1,766	1,766	8.83
543,452 556,816 570,674 584,929 599,163 2 1.134,477 3.216,222 4.200,666				<u> </u>	51,338	60,893	70,940	81,381	91,798	356,35
543,452 556,816 570,674 584,929 599,163		The state of the s								
350,616 574,524 584,929 599,163	Subtotal Non-Residential				E43 4E3	000 000			The second section of the second	
1,134,477 1,215,222 1,300,605 1,105					SCTICTO	019'000	570,674	584,929	599,163	2,855,035
1.415./// 1 John Rok 1 John 1 John 1 1.415.	Total Targeted DE			The same of the last of the la						

All utility-owned Third Party projects are developed through a competitive RFP process, and all DE systems are built independently by Third Part developers and installers.
 Reported as incremental production (non-annualized).
 Reported as annualized production.
 Mon-Incentive Installations defined as installations made by customers without taking a direct cash incentive and without transferring REC ownership to AbS.

Notes:

Exhibit 2B: Distributed Energy Compliance Table (MWh) 1

This exhibit represents actual and forecasted 2014-2020 RES DE compliance totals compared with where APS's compliance position would be if the Company were actual non-incentive installations to date for 2014 and 2015, as well as forecasted DE customer growth absent any new incentive program funding for 2016-2020. allowed to count independent, non-incentive customer installations towards its RES compliance reporting. The non-incented installations shown below represent

in					一个 一				
일 -	2000	2014	2015	2016	2017	2018	2019	2020	Line
7 7	Nesidential DE (MWn)								-
m	Residential (incented/owned) ²	292,320	292,320	292,320	292,320	292,320	292.320	292 320	7 6
4	Non-incented Installations 3	89,649	182,598	298,705	366,086	427,692	489.298	550 904	4
9	Total	381,969	474,918	591,025	658,406	720,012	781,618	843,224	. 2
7	Non-Residential DE (MWh)				# 1				9
œ									7
6	Non-Res	432,368	490,829	515,149	524,155	533,655	543,552	553.478	8 0
10	Non-incented Installations 3	19,587	23,945	28,303	32,661	37,019	41,377	45.735	10
11	Total	451,955	514,774	543,452	556,816	570,674	584,929	599,163	11
13	Total DE (MWh)								12
14									13
15	Residential & Non-R	724,688	783,149	807,469	816,475	825,975	835,872	845,748	14
16	Non-incented Installations 3	109,236	206,543	327,008	398,747	464.711	530 675	596 639	2 4
17	Total	833,924	989,692	1,134,477	1,215,222	1,290,686	1,366,547	1,442,387	17
19	RES DE Requirements (MWh)					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			18
20									19
21	Residential/Non-Residential Requirements	372,182 186,091	430,485	513,380	608,929	709,397	813,806	917,982	20

If APS were allowed to count non-incented installations towards its RES DE compliance requirements, APS anticipates total installations projected to be installed though 2016 would: 1) advance residential compliance from 2016 to 2022,

If APS were allowed to count non-incented installations towards its RES DE compliance requirements, APS anticipates total installations projected to be installed though 2020 would:

²⁾ have no impact on non-residential compliance, and 3) advance overall DE compliance from 2018 to 2021.

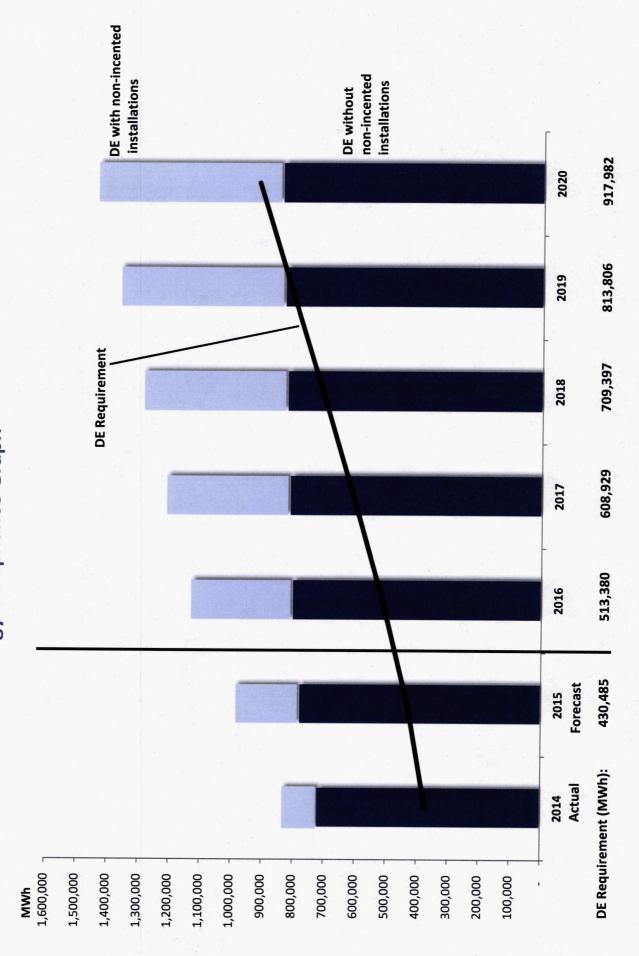
advance residential compliance from 2016 to 2025,
 advance non-residential compliance from 2021 to 2022, and

³⁾ advance overall DE compliance from 2019 to 2022.

² Includes UFI DE and Flagstaff Community Power Project.

³ Non-incented installations defined as installs made by customers without taking a direct cash incentive and without transferring REC ownership to APS. ⁴ Includes UFI, PBI, and Wholesale DE programs

Exhibit 2C: Distributed Energy Compliance Graph



Renewable Generation		2016	16	2017		2018	7	2019	2020	0	Total
Renewable Gener	Renewable Generation Contracts and Operation and Maintenance										
	Purchases and Generation 1,2	49	9.96	\$ 74		40.9	4	41.5	*	7 27	
	Administration	₩						0.6		=	
	Implementation	\$	1.0	8	1.1 \$	1.1	+ 49	2.5	9 V	9 -	0.0
	Total Renewable Generation	44			1	4		43.2		_	
Customer Sited Distributed Energy	2	M									
	Existing Contracts and Commitments Flagstaff Community Dower Project	÷			,						
	DE RFP	n u	7.7	A 44	4 4	, 4	60 (, ,		, ,	\$ 0.3
	Production-based Incentives		24.4	24	5 4	24.3	A 4	0.4.0			
	Schools and Government Program Incentives 3							1.0		-	7
	APS Schools and Government Program 1, 4	- 60	4.7	2 .	2.2 \$		A 4	: ,	A ₩	\.\ \.\	38.6
	Total Existing Contracts and Commitments		42.6	.,		37.0	149	36.1		9	19
	Non-Energy Distributed Energy Costs										
	Administration	\$	9.0	0	\$ 9.0	0.6	₩	9.0	₩.	0.6	3.0
	Implementation ⁵	₩.	6.2	9	4.	9.9	- 60	8.9	· (A	7.0	(*
	Information Technology	₩.	0.1 \$		0.1 \$	0.1				_	
	Educational Outreach: Non-Incentive Costs	\$	0.1		1.1		49	0.1			0.5
	Total Non-Incentive DE Costs	49	7.0	\$ 7.	7.2 \$	7.4	49	7.6	*	7.8	3
	Total Customer Sited DE (line 16 + line 20 + line 28)	₩.	49.6	\$ 46.7	V.	44.4	44	43.7	4	43.4 \$	~
	Total RES Budget ⁵ (line 6 + line 30)	\$ 14	147.9	\$ 122.5	5	87.0	49	87.0	4	87.5	531.8
Offsets to Base Budget										+	П
	Base Rates	+5	(6.9)		\$ (0.	(6.0)	4		,		(0.06)
					(7.4)	(6.8)		(5.9)		(4.3)	
	Estimated Green Choice Revenue Credit Previous Years Rollover Funds and Other Credits	S	(1.7)	(1.7 TBD	20	(1.7) TRD		(1.7)	, C F	(1.7)	(8.5)
			-		The same of the sa	-		2			1

¹ Assumes rate case adjudication in July 2017.
² Includes RES costs totaling approximately \$0.2M for Sexton (Glendale Landfill) PPA for 2014-2017.

³ Third-party owned portion of the current 2011, 2012, and expanded Schools and Government Programs.

⁴ APS owned portion of the 2011 and 2012 School and Government Programs.

 $^{^5}$ Includes revenue requirements for the production metering as required by Decision No 72737.

Targeted Generation Resources ¹: Solar: Ajo Prescott Badger	3rd Party PPA	2016	2017		2019		Total
Solar: Ajo Prescott Badger	3rd Party PPA			2018			
Ajo Prescott Badger	3rd Party PPA			9707		7070	
Prescott Badger	2						
Badger	3rd Party PPA						
-1	3rd Party PPA						
eillespie	3rd Party PPA						
Saddle Mountain	3rd Party PPA						
Solana CSP	3rd Party PPA						
Chino Valley	APS						
Foothills I/II	APS						
II Hyder II	APS						
Gila Bend	ADA						
Luke AFB	APS						
Desert Star	SHV						
	2						
Wind:							
Aradonne Mesa	3rd Darty, BBA						
High Concome	Sid raity FrA						
Perrin Ranch	3rd Party PPA						
	Sid raity PPA						
Geothermal:							
Salton Sea/CE Turbo	3rd Party PPA						
Biomass/Biogas:							
Snowflake	3rd Party PPA						
Sexton (Glendale Landfill)*	3rd Party PPA						
Northwest Regional Landfill Gas	3rd Party PPA						
Subtotal Targeted Generation 4		\$ 96.6	74.1 \$	40.0	415 6	727	
Targeted and Expected Distributed Energy Resources:						12:4	9 295.0
Non-Pacidantial							
	Customer-Sited DE	* 770					
		V	4 4.4	24.3 \$	23.6 \$	23.0	\$ 119.7
	Customer-Sited DE	0.0	5.0	2.0	4.8	4.9	25.3
	scorrier - Sited DE	1.7	/:/	7.7	7.7	7.7	38.6
Flacetaff Community Dower Brotect	APS	4.7	2.2			•	6.9
regardi community rower rioject	APS	0.2	0.1		•		0.3
SubTotal Non-Residential Distributed Engage	100				The state of the s		
	(Illue 30 + Illue 40)	\$ 42.6 \$	39.5 \$	37.0 \$	36.1 \$	35.6	\$ 190.8
Total Targeted Energy Costs 4 //in	(line 20 ± line 48)	1 0000					

¹ Redacted due to the competitively confidential nature of the information.

² Assumes July 2017 rate case adjudication.

³ Expected costs of Wholesale DE included in costs associated with Snowflake White Mountain Power, and not included in DE section.

⁴ Includes RES costs totaling approximately \$0.1M for Sexton (Glendale Landfill) PPA for 2016-2020.

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4	2009³	220.0	Standard PBI Lifetime Budget	າ
2	20104	100.0	Standard PBI Lifetime Budget	4 r
9	2011 ⁵	100.0	Standard PBI Lifetime Budget (\$73M), School and Government PBI (\$27M)	n (
7	2012 ⁶	95.8	Standard PBI Lifetime Budget (\$30M), School and Government PBI (#65 9M)	ا د
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1	Retirement of Auth	orizations fro	Authorizations from Completed Programs;	10
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15		10.4	10.4 Retained for Expanded School and Government PBI ⁹	<u> </u>
16	\$	652.6	652.6 Total Remaining Lifetime PBI Authorization	15
				16

PBI Amortization Schedule 2016 2017 2018 2018 2017 2018 Cumulative PBI Incentive Payments 134.0 171.7 208.9 Annual PBI Payment (Projected) 37.7 37.1 37.0 Remaining PBI Commitment \$ 480.9 \$ 443.7 \$ 406.7 \$
\$ 652.6 \$ 65 65 134.0 17 37.7 \$ 3 3 480.9 \$ 444
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Total PBI Commitment \$ Cumulative PBI Incentive Payments Annual PBI Payment (Projected) Remaining PBI Commitment \$

¹ Pursuant to Decision No. 71459, APS was authorized a total lifetime PBI Budget Authorization cap of \$250 million for the DE RFP.

² Pursuant to Decision No. 72022, APS was authorized to commit \$25 million of its DE RFP authorization to the Innovative Technologies Program.

³ Pursuant to Decision No. 71254, the total lifetime PBI budget through and including 2009 is \$220 million of total contract commitments.

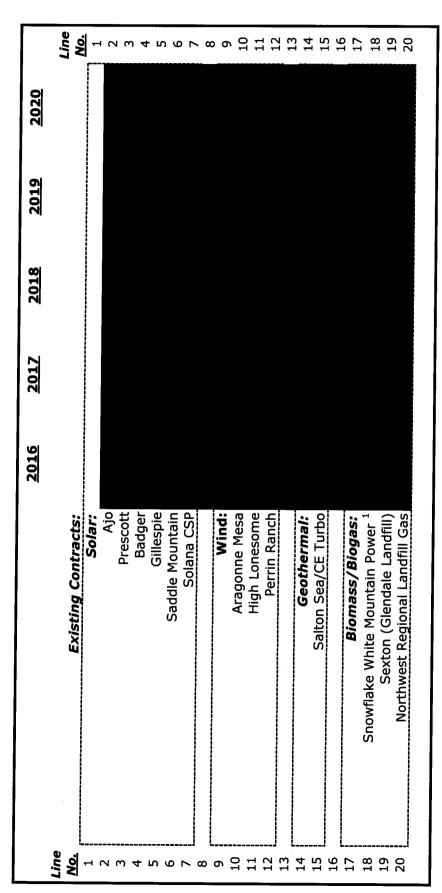
⁵ Pursuant to Decision Nos. 72022 and 72174, in 2011, APS committed \$27 million of its Lifetime PBI Budget Authorization towards the ⁴ Pursuant to Decision No. 71459, APS was authorized an additional \$100 million per year lifetime commitment authorization.

⁷ Pursuant to Decision No. 73636, ACC authorized \$6M in new PBI program funds and a shift in \$23.5M of unallocated DE RFP funds to support Schools and Government program.

⁶ Pursuant to Decision No. 72737, \$30 million allocated to non-residential PBI and \$65.8 million to 2012 S&G. anticipated 2012 S&G program needs.

⁸ Includes \$25M previously allocated to Innovative Technologies and \$49.9M in project commitment reduction due to cancellation of a portion of the DE RFP program.

⁹ Additional lifetime PBI authorization to complete program approved pursuant to Decision No. 72737.



Notes:

¹ This project is split between Renewable Generation (RG) and Distributed Energy (DE).

Exhibit B

Summary of APS 2016 RES Implementation Plan

Summary of APS's 2016 Renewable Energy Standard Implementation Plan

Arizona Public Service (APS or Company) is required by the Renewable Energy Standard (RES) to achieve 6.0 percent of retail sales with renewable resources by year-end 2016, increasing annually to 10.0 percent in 2020.

Arizona Public Service Company's 2016-2020 Renewable Energy Standard (RES) Implementation Plan (Plan) requests funding approval for existing program commitments and deployment of previously authorized programs. APS expects to achieve compliance with its 2016 RES requirements.

Renewable Generation. In Decision No. 74237, the Commission authorized APS to move ahead with 20 MW of utility-scale, renewable generation (RG) projects under the AZ Sun Program. These projects include a 10 megawatt (MW) solar facility at Luke Air Force Base and the 10 MW Desert Star Solar Plant at the City of Phoenix's Buckeye landfill. Both projects are expected to be in commercial operation in the third quarter of 2015.

Distributed Generation. Consistent with Commission requirements on incentive funding step downs and APS performance with the distributed generation (DG) requirements, APS ceased offering direct cash incentives for residential and non-residential solar PV grid-tied resources as of the end of 2013. As of June 3, 2015, 22,394 residential customers and 995 non-residential customers have received incentives to interconnect PV systems, with associated capacity of 153.6 MW-AC and 231.1 MW-AC respectively. Based upon these currently installed resources, as well as commitments from previously approved program budgets, APS projects it will be in compliance with non-residential energy targets through 2020 and residential DG energy targets through 2016. APS is not requesting funding for new solar PV grid-tied resource incentives in the Plan. The above DG forecast does not include renewable energy credits (RECs) associated with non-incented installations. Through June 3, 2015, 10,831 residential PV grid-tied systems for 80 MW-AC and 214 nonresidential PV systems for 13.7 MW-AC have been installed and interconnected without receiving direct cash incentives. Considering all installations, both incented and nonincented, along with projections based on the current rate of solar installations, APS expects to meet residential DG compliance through 2022 and non-residential DG compliance through 2021 by the end of 2016.

Budget. The requested budget for APS's 2016 Plan consists of funding for previously authorized programs including PBI legacy payments, purchased power and revenue requirement costs, and administration of prior initiatives currently being implemented.

APS expects the total base budget for PBI and other DG legacy costs, PPA projects, and APS-owned projects in 2015 to be \$147.9 and the five-year total for the 2016-2020 Plan to be \$538.1 million, not including any funding offsets.

Exhibit C

PowerPoint Summary of APS 2016 RES Implementation Plan

Arizona Public Service Company

2016-2020 Renewable Energy Standard Implementation Plan

July 1, 2015





2016 RES Implementation Plan Overview

- requirements, provided all the resources discussed in the Plan are authorized and continued as previously approved in prior APS expects to achieve compliance with its 2016 RES Commission decisions
- obligations in 2016 in accordance with APS's 2009 Settlement The Company expects also to maintain its renewable energy Agreement
- adjustor) to meet prior commitments and manage on-going APS requests a \$147.9M budget (\$118.2M through RES programs



Renewable Generation - AZ Sun

- Two projects were authorized: Luke Air Force Base (10 MW) and the Desert Star Solar Plant at the City of Phoenix's Buckeye Landfill (10 MW)
- APS expects both projects will be in commercial operation by the third quarter of 2015



Distributed Generation

- Counting only incented PV grid-tied DG resources, APS expects to be in compliance with non-residential energy RES targets through 2020 and residential energy RES targets through 2016
- As of June 28, 2015, 22,394 residential customers and 999 interconnect PV systems (153.6 MWac and 231.4 MWac, non-residential customers have received incentives to respectively)



Distributed Generation (cont)

- systems for 84 MWac and 220 non-residential PV systems for 13.9 MWac have been installed and interconnected without Through June 28, 2015, 11,338 residential PV grid-tied receiving direct cash incentives
- Considering all installations projected by the end of 2016, APS expects to meet residential DG compliance through 2022 and non-residential DG compliance through 2021
- APS is not seeking authorization for an extension of the existing solar water heating incentive program

Exhibit D

Proposed Adjustment Schedule REAC-1



ADJUSTMENT SCHEDULE REAC-1 RENEWABLE ENERGY STANDARD

APPLICATION

The Renewable Energy Standard Adjustment Schedule applies to all retail Standard Offer and Direct Access service. This schedule recovers expenditures approved by the Arizona Corporation Commission ("Commission") in APS's annual Implementation Plan for the Renewable Energy Standard.

The rates will be revised annually, effective on the first billing cycle in January, or as otherwise ordered by the Commission, and will not be prorated. Further information may be found in the Arizona Administrative Code A.A.C. R14-2-1808 and Commission Decision Nos. 73183, 74237, 74883, and 74949.

All provisions of the customer's current applicable rate schedule will apply in addition to this adjustment schedule. Adjustment schedules REAC-1 and DSMAC-1 may be combined and shown on the "Environmental Benefits Surcharge" line of the monthly bill.

RATES

The monthly bill for each service account will be calculated at the following rates and surcharge caps:

A. kWh Charge

\$0.010963 per kWh

B. Surcharge Caps (per service account per month)

Residential Customers

\$4.39

Non-residential Customers:

Extra Small/Small

\$162.88

Medium

\$274.08

Large

\$548.15

Extra Large

\$3562.00

C. Alternative Surcharge Caps, Flat Charges and Minimum Charges for Certain Customers with Distributed Generation

This section will apply to:

- Customers who installed a distributed generator and received an incentive after July 1, 2012 and
- Customers who installed a distributed generator and interconnected to the APS system after February 1, 2013, regardless of incentive.

Customers who installed a distributed generator prior to July 1, 2012 and those that installed a generator before February 1, 2013, but did not receive an incentive, will be billed according to sections A and B above.

Title: Manager, Regulation and Pricing Original Effective Date: May 1, 2008



ADJUSTMENT SCHEDULE REAC-1 RENEWABLE ENERGY STANDARD

Rates Section C. (Cont.)

Residential Customers ¹	\$4.00	Flat charge per month
Non-residential Customers:		
Extra Small ²	\$9.15	Minimum charge per month
	\$162.88	Surcharge cap
Small ²	\$45.77	Minimum charge per month
	\$162.88	Surcharge cap
Medium ¹	\$235.06	Flat charge per month
Large ¹	\$479.33	Flat charge per month
Extra Large ¹	\$3562.00	Flat charge per month

Notes:

- 1. The billed amount for a flat charge per month will be the stated charge and will not include the kWh charge under Section A.
- 2. The billed amount for extra small and small non-residential customers will be the kWh charge under section A subject to the minimum charges and surcharge caps.

NON-RESIDENTIAL CUSTOMER BILLING CATEGORIES

Non-residential customers served under the following "parent" retail rate schedules will be billed under the corresponding surcharge categories.

Surcharge Category	<u>Retail Rate</u>
Extra-small	E-47, E-58, E-59, Contract 12, E-67, E-36M (small option)
Medium	E-32 M, E-32TOU M
Large	E-32 L, E-32TOU L, E-36M (medium option), GS-Schools L
Extra-large	E-34, E-35, E-36 XL

For customers served under the following rate schedules, the surcharge category will be based on the monthly billing demand.

Surcharge Category	Retail Rate	Monthly Billing Demand
Extra-small	E-221, E-221 8T	20 kW and less
Small	E-221, E-221 8T	21 - 100 kW
Medium	E-221, E-221 8T	101- 400 kW
Large	E-221, E-221 8T	> 400 kW
Extra-small	GS-Schools M	20 kW and less
Small	GS-Schools M	21 - 100 kW
Medium	GS-Schools M	> 100 kW
Extra-small	E-20	20 kW and less
Small	E-20	> 20 kW

ARIZONA PUBLIC SERVICE COMPANY

Phoenix, Arizona

Filed by: Charles A. Miessner

Title: Manager, Regulation and Pricing Original Effective Date: May 1, 2008

A.C.C. No. XXXX Canceling A.C.C. No. 5844 Adjustment Schedule REAC-1 Revision No. 10 Effective: XXXXXXXX

Exhibit E

Proposed Adjustment Schedule REAC-1 (Redlined)



ADJUSTMENT SCHEDULE REAC-1 RENEWABLE ENERGY STANDARD

APPLICATION

The Renewable Energy Standard Adjustment Schedule applies to all retail Standard Offer and Direct Access service. This schedule recovers expenditures approved by the Arizona Corporation Commission ("Commission") in APS's annual Implementation Plan for the Renewable Energy Standard.

The rates will be revised annually, effective on the first billing cycle in January, or as otherwise ordered by the Commission, and will not be prorated. Further information may be found in the Arizona Administrative Code A.A.C. R14-2-1808 and Commission Decision Nos. 73183, 74237, 74883, and 74949.

All provisions of the customer's current applicable rate schedule will apply in addition to this adjustment schedule. Adjustment schedules REAC-1 and DSMAC-1 may be combined and shown on the "Environmental Benefits Surcharge" line of the monthly bill.

RATES

The monthly bill for each service account will be calculated at the following rates and surcharge caps:

A. kWh Charge \$0.011060 per kWh 0.010963

B. Surcharge Caps (per service account per month)

Residential Customers \$4.424.39

Non-residential Customers:

Extra Small/Small \$\frac{164.32162.88}{}

Medium \$276.50274.08

Large \$553.00548.15

Extra Large \$3,594.003562.00

C. Alternative Surcharge Caps, Flat Charges and Minimum Charges for Certain Customers with Distributed Generation

This section will apply to:

- Customers who installed a distributed generator and received an incentive after July 1, 2012 and
- Customers who installed a distributed generator and interconnected to the APS system after February 1, 2013, regardless of incentive.

Customers who installed a distributed generator prior to July 1, 2012 and those that installed a generator before February 1, 2013, but did not receive an incentive, will be billed according to sections A and B above.



ADJUSTMENT SCHEDULE REAC-1 RENEWABLE ENERGY STANDARD

Rates Section C. (Cont.)

Residential Customers ¹	\$ 3.99 <u>4.00</u>	Flat charge per month
Non-residential Customers: Extra Small ²	\$ 9.40 <u>9.15</u> \$ 164.32 <u>162.88</u>	Minimum charge per month Surcharge cap
Small ²	\$4 6.18 45.77 \$164.32 <u>162.88</u>	Minimum charge per month Surcharge cap
Medium ¹	\$ 241.42 <u>235.06</u>	Flat charge per month
Large ¹	\$ 531.93 479.33	Flat charge per month
Extra Large ¹	\$3594.003562.00	Flat charge per month

Notes:

- 1. The billed amount for a flat charge per month will be the stated charge and will not include the kWh charge under Section A.
- 2. The billed amount for extra small and small non-residential customers will be the kWh charge under section A subject to the minimum charges and surcharge caps.

NON-RESIDENTIAL CUSTOMER BILLING CATEGORIES

Non-residential customers served under the following "parent" retail rate schedules will be billed under the corresponding surcharge categories.

Surch	arge Category		Retail Rate
E	xtra-small	E-47	, E-58, E-59, Contract 12, E-67, E-36M (small option)
1	Medium	E-32	M, E-32TOU M
	Large	E-32	L, E-32TOU L, E-36M (medium option), GS-Schools L
E	xtra-large	E-34	, E-35, E-36 XL

For customers served under the following rate schedules, the surcharge category will be based on the monthly billing demand.

Surcharge Category	Retail Rate	Monthly Billing Demand
Extra-small	E-221, E-221 8T	20 kW and less
Small	E-221, E-221 8T	21 - 100 kW
Medium	E-221, E-221 8T	101- 400 kW
Large	E-221, E-221 8T	> 400 kW
Extra-small	GS-Schools M	20 kW and less
Small	GS-Schools M	21 - 100 kW
Medium	GS-Schools M	> 100 kW
Extra-small	E-20	20 kW and less
Small	E-20	> 20 kW

ARIZONA PUBLIC SERVICE COMPANY

Phoenix, Arizona

Filed by: Charles A. Miessner

Title: Manager, Regulation and Pricing Original Effective Date: May 1, 2008 A.C.C. No. 5884XXXX
Canceling A.C.C. No. 58385844
Adjustment Schedule REAC-1
Revision No. 910
Effective: January 1, 2015XXXXXXXXX

Exhibit F

Proposed Rate Rider Schedule LFCR-DG



RATE RIDER SCHEDULE LFCR DG RESIDENTIAL SERVICE INTERIM ADJUSTMENT FOR NEW DISTRIBUTED GENERATORS

AVAILABILITY

This rate rider schedule is available in all territory served by the Company.

APPLICATION

This rate rider schedule is applicable to residential customers that have a distributed generation facility on their premises that is serving a portion of or all of the customer's electric requirements.

A distributed generation facility is an electrical generator, other than a mobile emergency backup unit, sited on the customer's premises, such as, but not limited to renewable resources, a fuel cell, or CHP.

This schedule shall not apply to customers that (1) installed a distributed generation facility through APS's interconnection process prior to January 1, 2014 or (2) submitted an application for interconnection and a signed contract with an installer to APS prior January 1, 2014.

This schedule shall not apply to customers being served under retail rate schedules ECT-1R and ECT-2 or successor demand-based rate schedules.

All provisions of the customer's retail rate schedule and other applicable riders will continue to apply.

CHARGES

The charges below shall be applied to the nameplate kW-DC power rating of the distributed generation facility and shall be effective beginning with the first billing cycle in May 2014, without proration.

These charges may be revised from time to time as approved by the Arizona Corporation Commission. However, the revised amounts shall only apply to customers that submit a signed contract with an installer to APS after the revision is approved. Other distributed generation facilities shall continue to be subject to the prior charge (or charges). These successive tranches of charges shall remain in place until at least APS's next rate case, at which time all charges are subject to change.

This "grandfathering" of charges until APS's next rate case shall pertain to the distributed generation facility and the premises where it is sited and is not restricted to the current homeowner or customer of record.

Any customer found to have not registered their distributed generation facility with APS through the application and interconnection process when their distributed generation facility was installed shall, upon such finding, be subject to the "Generators not registered with APS" charge. This charge shall apply in each monthly billing cycle that the distributed generation facility is operated, beginning in the month of detection by APS and ending when the facility is shut off, for a minimum of one monthly charge. When the facility is restarted through APS's interconnection process, the facility shall be subject to the regular LFCR DG adjustment charge.

Monthly Charges (apply one of the following charges):

LFCR DG adjustment

\$0.70

Per kW-DC of generation

Generators not registered with APS

\$3.00

Per kW-DC of generation

Exhibit G

Proposed Rate Rider Schedule LFCR-DG (Redlined)



RATE RIDER SCHEDULE LFCR DG RESIDENTIAL SERVICE INTERIM ADJUSTMENT FOR NEW DISTRIBUTED GENERATORS

AVAILABILITY

This rate rider schedule is available in all territory served by the Company.

APPLICATION

This rate rider schedule is applicable to residential customers that have a distributed generation facility on their premises that is serving a portion of or all of the customer's electric requirements.

A distributed generation facility is an electrical generator, other than a mobile emergency backup unit, sited on the customer's premises, such as, but not limited to renewable resources, a fuel cell, or CHP.

This schedule shall not apply to customers that (1) installed a distributed generation facility through APS's interconnection process prior to January 1, 2014 or (2) submitted an application for interconnection and a signed contract with an installer to APS prior January 1, 2014.

This schedule shall not apply to customers being served under retail rate schedules <u>ECT-1R</u> and <u>ECT-2</u> or successor <u>demand-based</u> rate schedules.

All provisions of the customer's retail rate schedule and other applicable riders will continue to apply.

CHARGES

The charges below shall be applied to the nameplate kW-DC power rating of the distributed generation facility and shall be effective beginning with the first billing cycle in May 2014, without proration.

These charges may be revised from time to time as approved by the Arizona Corporation Commission. However, the revised amounts shall only apply to customers that submit a signed contract with an installer to APS after the revision is approved. Other distributed generation facilities shall continue to be subject to the prior charge (or charges). These successive tranches of charges shall remain in place until at least APS's next rate case, at which time all charges are subject to change.

This "grandfathering" of charges until APS's next rate case shall pertain to the distributed generation <u>facilitysystem</u> and the premises where it is sited and is not restricted to the current homeowner or customer of record.

Any customer found to have not registered their distributed generation <u>facilitysystem</u> with APS through the application and interconnection process when their distributed generation <u>facilitysystem</u> was installed shall, upon such finding, be subject to the "Generators not registered with APS" charge. <u>This charge shall apply in each monthly billing cycle that the distributed generation facility is operated, beginning in the month of detection by APS and ending when the facility is shut off, for a minimum of one monthly charge. When the facility is restarted through APS's interconnection process, the facility shall be subject to the regular LFCR DG adjustment charge.</u>

Monthly Charges (apply one of the following charges):

LFCR DG adjustment \$0.70 Per kW-DC of generation

Generators not registered with APS \$3.00 Per kW-DC of generation

ARIZONA PUBLIC SERVICE COMPANY

Phoenix, Arizona

Filed by: Charles A. Miessner Title: Pricing Manager

Original Effective Date: January 1, 2014

A.C.C. No. 5870XXXX

Canceling A.C.C. No. 5870

Rate Rider Schedule LFCR DG Revision No. (original)

Effective: January 1, 2014 XXXX